GE
Lighting Solutions

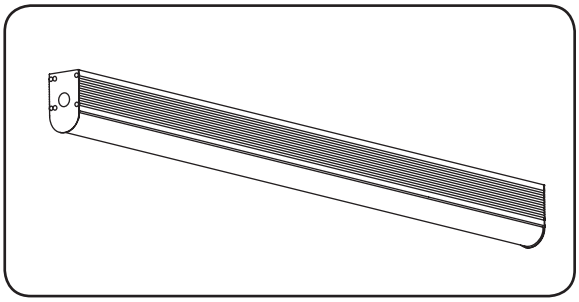
Installation Guide

Albeo™ LED Luminaire

Linear Lighting
(ALC4-series)

Features

- 5 year warranty
- Damp location rated



BEFORE YOU BEGIN

Read these instructions completely and carefully.

⚠ WARNING/AVERTISSEMENT

RISK OF ELECTRIC SHOCK	**RISQUES DE DÉCHARGES ÉLECTRIQUES**
• Turn power off before inspection, installation or removal.	• Coupez l'alimentation avant d"inspecter, installer ou déplacer le luminaire.
• Properly ground electrical enclosure.	• Assurez-vous de correctement mettre à la terre le boîtier d'alimentation électrique.
RISK OF FIRE	**RISQUES D'INCENDIE**
• Follow all NEC and local codes.	• Respectez tous les codes NEC et codes locaux.
• Use only UL or IEC approved wire for input/output connections. Minimum size 18 AWG.	• N'utilisez que des fils approuvés par UL ou IEC pour les entrées/sorties de connexion. Taille minimum 18 AWG.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. CAN ICES-3 (A)/NMB-3(A)

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Save These Instructions

Use only in the manner intended by the manufacturer. If you have any questions, contact the manufacturer.

Prepare Electrical Wiring

Electrical Requirements

• The LED driver must be supplied with 120-480 VAC, 50/60 Hz per product label and connected to an individual properly grounded branch circuit, protected by a 15 or 20 ampere circuit breaker.

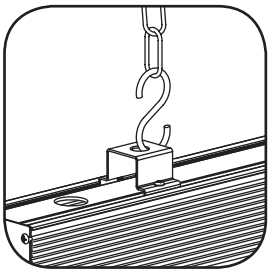
Grounding Instructions

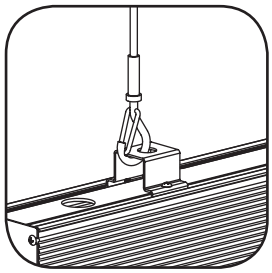
• The grounding and bonding of the overall system shall be done in accordance with National Electric Code (NEC) Article 600 and local codes.

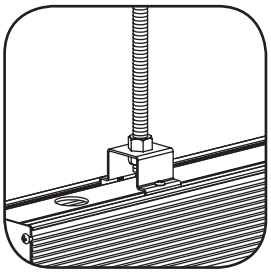
imagination at work

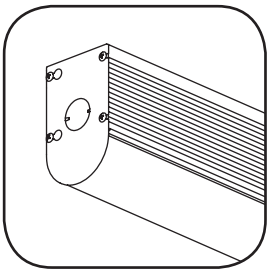
Unit Installation

1. Carefully unpack unit and properly inspect for defects before installing. Wear work gloves to prevent dirt and oil from being transferred to the luminaire.
2. Choose a mounting method: chain, cable, rod or surface mount.


Chain


Cable


Rod


Surface

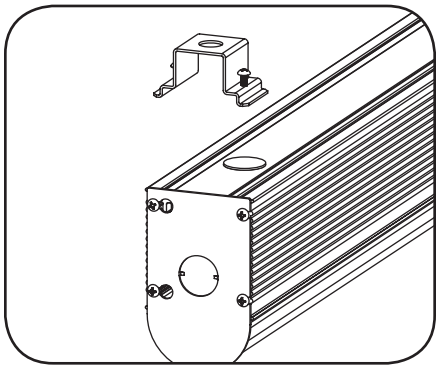
3. Please follow all UL, NEC and minimum load rating guidelines when selecting and installing a chain, cable or rod.
4. Hang up to two chains, cables or rods from a structural member of the ceiling to support each fixture. Fixture must be supported independently of an outlet box. Install mounting brackets for each fixture.

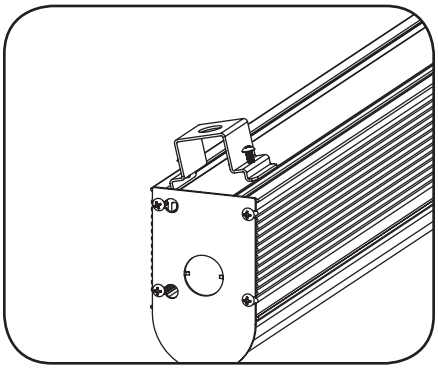
ALC4 Fixture Weight

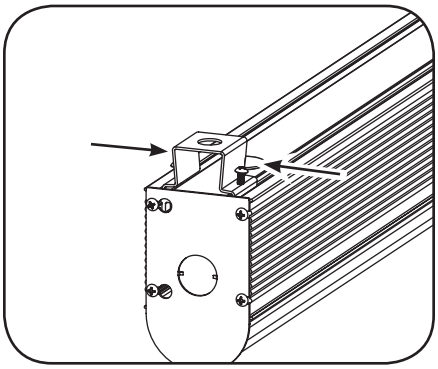
	120-277V	347/480V
4 ft. fixture	8.5 lbs.	11.5 lbs.
8 ft. fixture	17 lbs.	20 lbs.

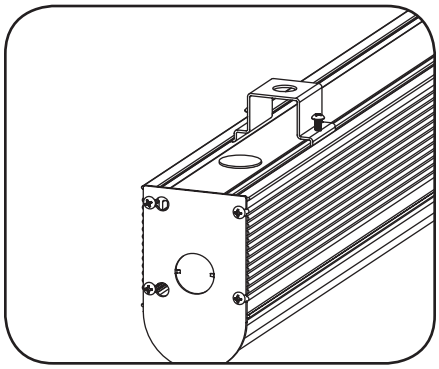
Mounting Bracket Installation

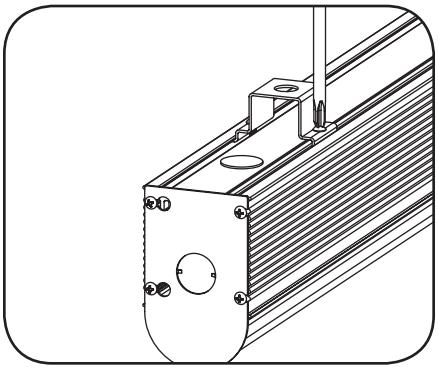
The mounting bracket can be installed at any location along the length of the fixture. Screws must be fully tightened to lock in place and strengthen the bracket. Each mounting bracket can connect to a chain, cable or rod.

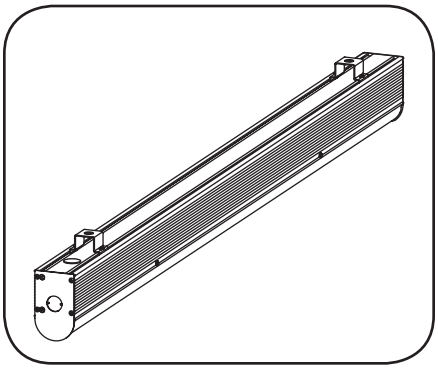

1. Mounting bracket (with #6-3/8" Phillips head screws) and fixture shown.


2. Fit one side of the bracket into an extrusion slot on the fixture.


3. Squeeze the mounting bracket and press down until it snaps into place.

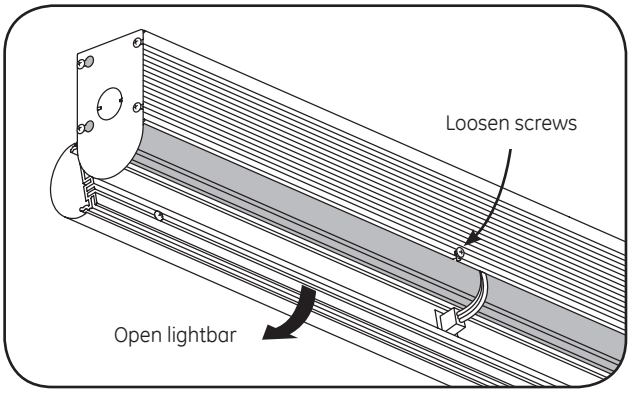

4. Position mounting bracket in desired location.


5. Fully tighten screws to lock in place and strengthen the bracket.

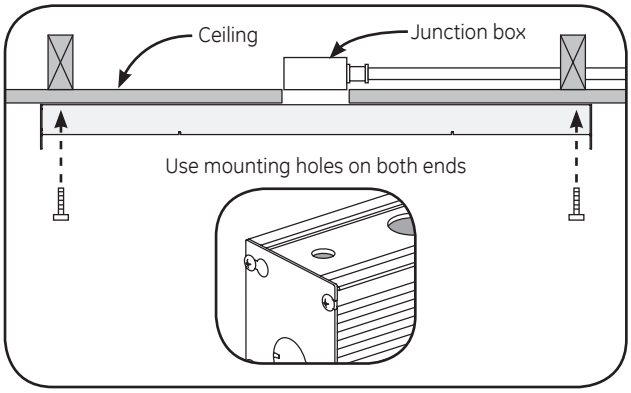

6. Fixture is now ready to install with chain, cable or rod. If installing a **Continuous Run** or **Control Module**, please review additional instructions later in this publication.

Surface Mount Installation

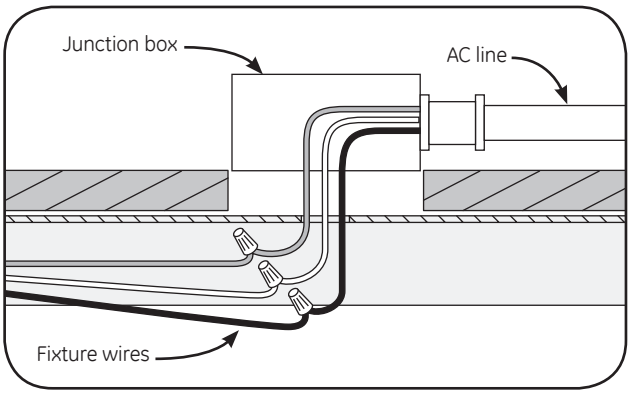
Option A: Attach using mounting holes



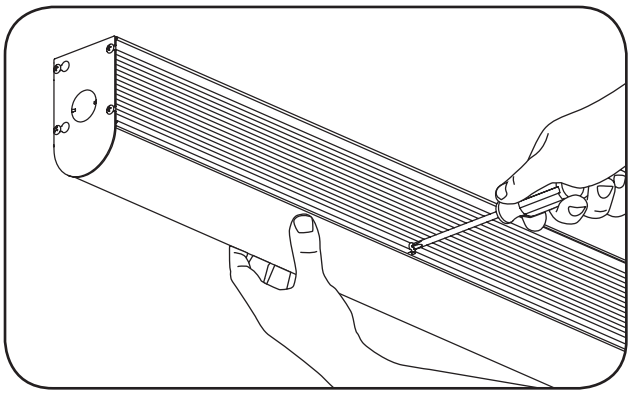
1 Loosen screws on side of fixture and unhinge LED lightbar from fixture.



2 Using 3/8" holes on both ends, mount the fixture to ceiling using appropriate hardware (not supplied).

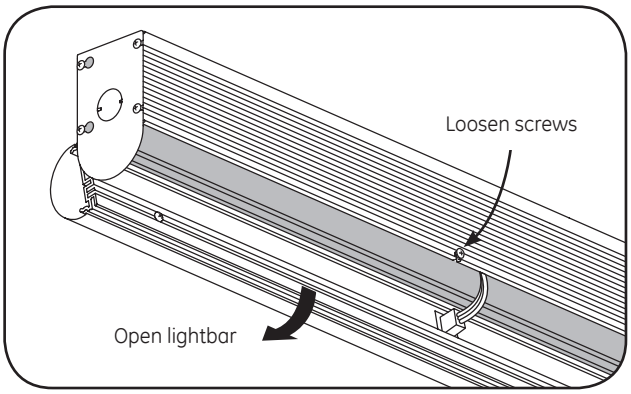


3 Run power through one of the 0.875" holes in top of fixture and into a junction box. Connect AC wires from junction box to fixture wires (see Step 4 under ***Electrical Connections*** for details).

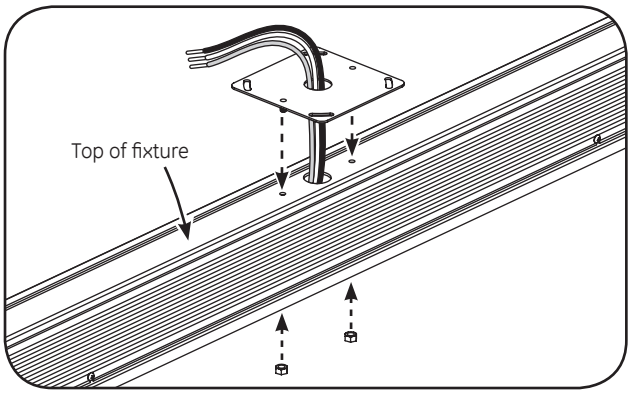


4 Reattach lightbar to fixture and tighten screws.

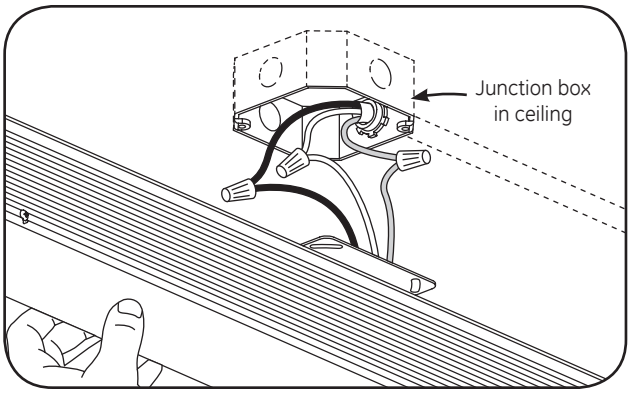
Option B: Attach directly to junction box



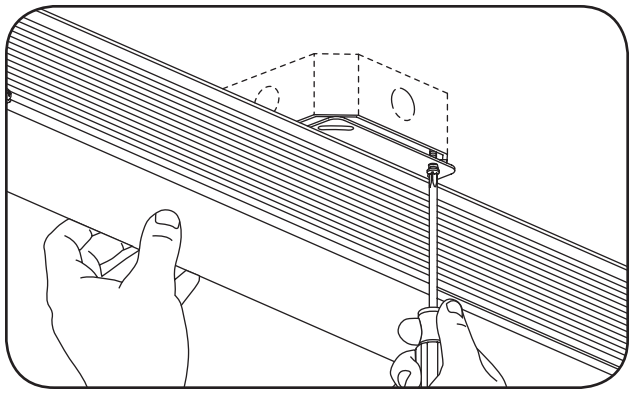
1 Loosen screws on side of fixture and unhinge LED lightbar from fixture.



2 Attach plate to top of fixture and tighten with two nuts on interior of fixture. Run wiring out of 0.875" hole.



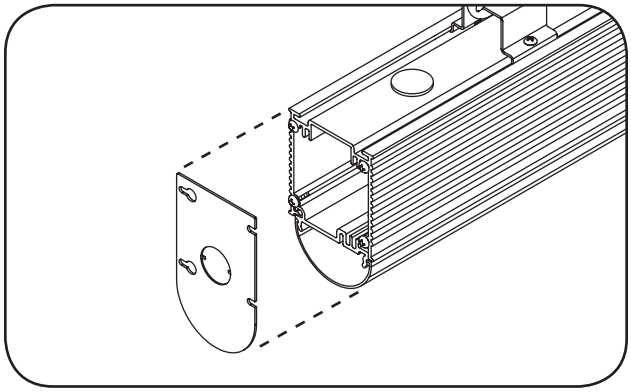
3 Close fixture and tighten screws. Connect AC wires from junction box to fixture wires (see Step 4 under ***Electrical Connections*** for details).



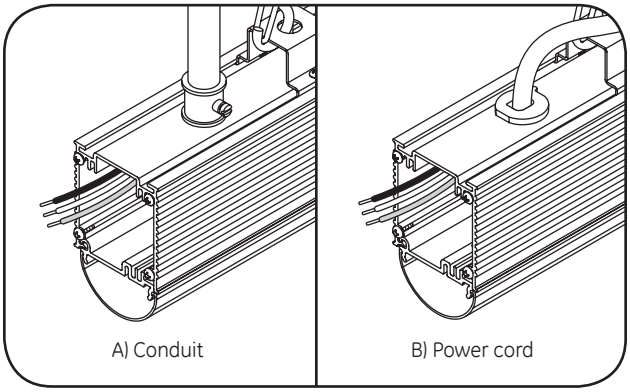
4 Mount fixture to junction box.

Electrical Connections

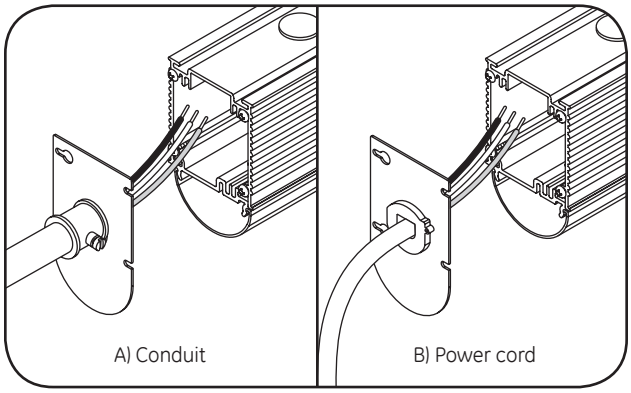
Note: Please see additional wiring instructions if installing multiple fixtures in a Continuous Run or an inline Control Module.



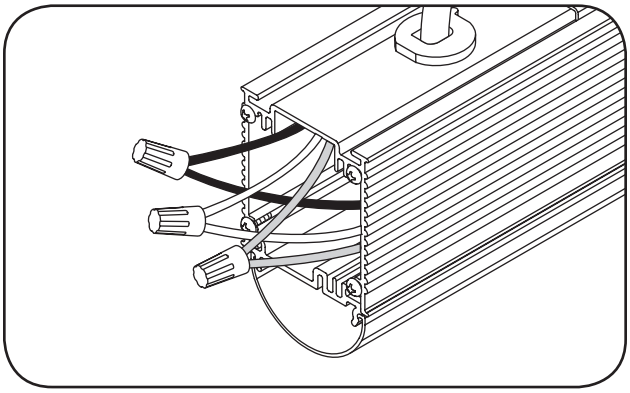
1 Loosen screws to remove endcap.



2 **Option: power input from top –** Remove knockout in top and A) install 1/2" conduit, or B) install AC power cord with strain relief.



3 **Option: power input from side –** Remove knockout in endcap and A) Install 1/2" conduit, or B) install AC power cord with strain relief. Plug unused hole on top with appropriate fitting.

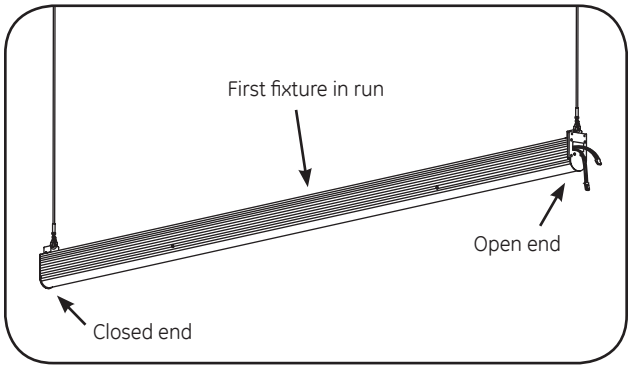


4 **120-277V:** Connect the green (ground), black (line) and white (neutral) wires of the AC line to the similarly colored wires of the fixture's power supply using UL listed wire connectors. Re-attach endcap.

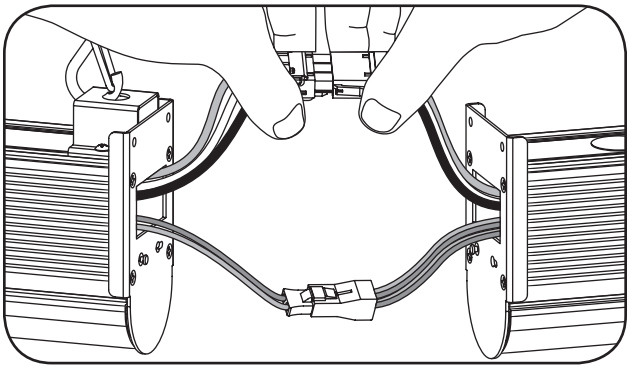
347-480V: Connect the green (ground), red (line) and black (neutral) wires of the AC line to the similarly colored wires of the fixture's power supply using UL listed wire connectors. Re-attach endcap.

Continuous Run Installation

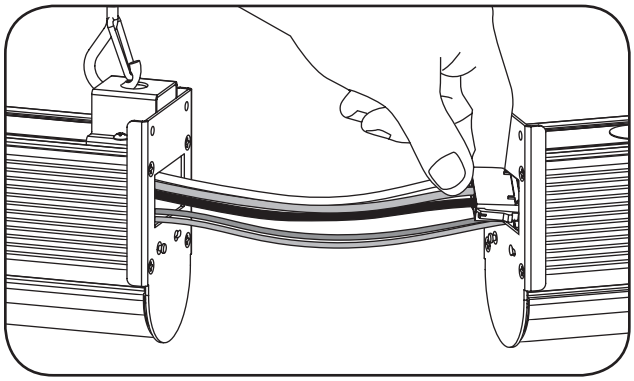
When ordered as an option, continuous run fixtures use quick-connectors and keyhole fasteners to properly wire & align the joining fixtures.



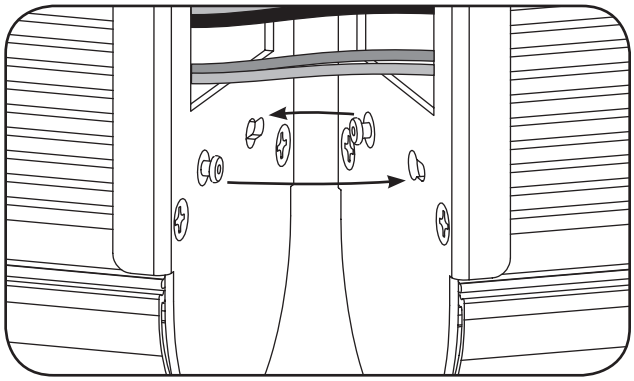
1 Completely hang the first fixture in the run. One end should be closed while the other end has quick-connect wiring. Using two people, hang the next fixture in the run, making sure to properly align quick-connectors.



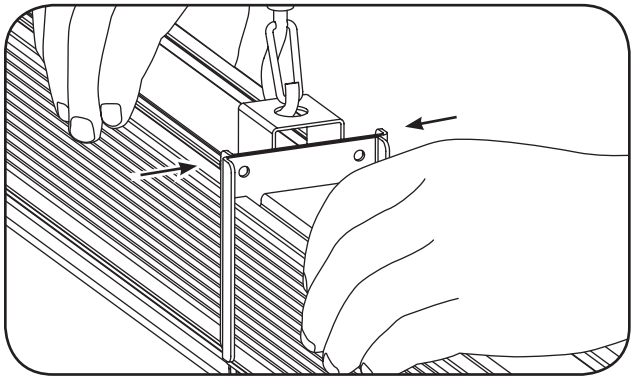
2 Make all wiring connections between fixtures using the provided quick-connectors.



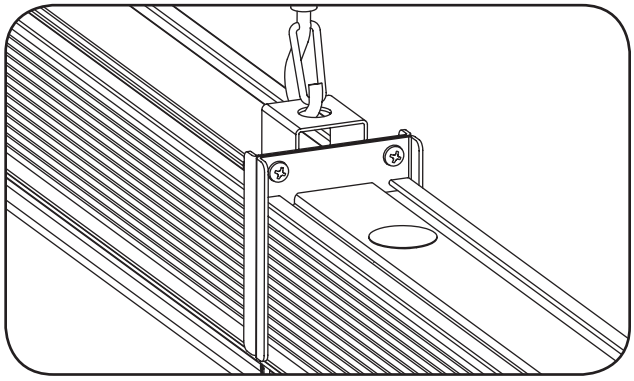
3 Push the quick-connect assembly and excess wiring into the open end of one fixture end plate so only a small length of wire remains between joining fixtures.



4 Align keyhole slots with corresponding keyhole studs and push fixtures together.



5 Shift fixtures until keyhole studs lock-in place and fixtures are horizontally aligned



6 Install two #8-32 screws with nuts (provided) to fasten the end plates of the joined fixtures together

7 Continue to add fixtures as needed to complete the continuous run.

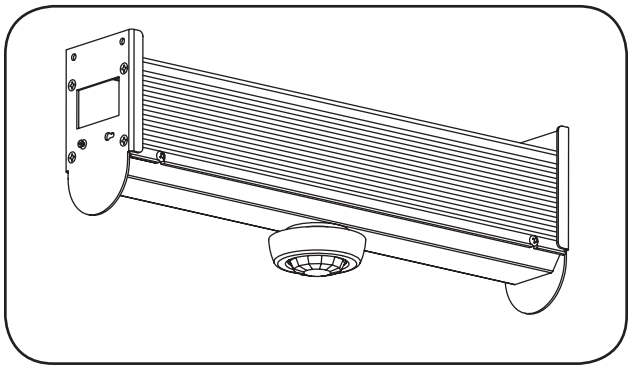
Note: If there are unused quick-connectors at the end of a run, cut off the connectors and cap the ends with wire connectors to terminate the wires. Replace open end plate with a solid end plate.

Note: The current though the continuous fixture run cannot exceed 20A. See maximum fixture run length listed below.

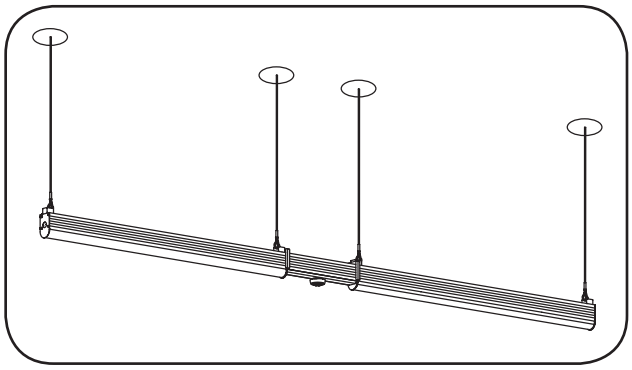
Output Voltage	Total Run Length (ft.)		
	T	H	V
120V	288	192	120
277V	664	440	284
347V	677	495	342
480V	936	685	474

Control Module Installation and Wiring

The 14" wireless control /occupancy sensor module can be installed inline with any fixture configuration. The contractor must drop power down to this module and connect any desired adjacent fixtures to the module. ***Note:*** The occupancy sensor shown in these images may differ from the actual unit provided.



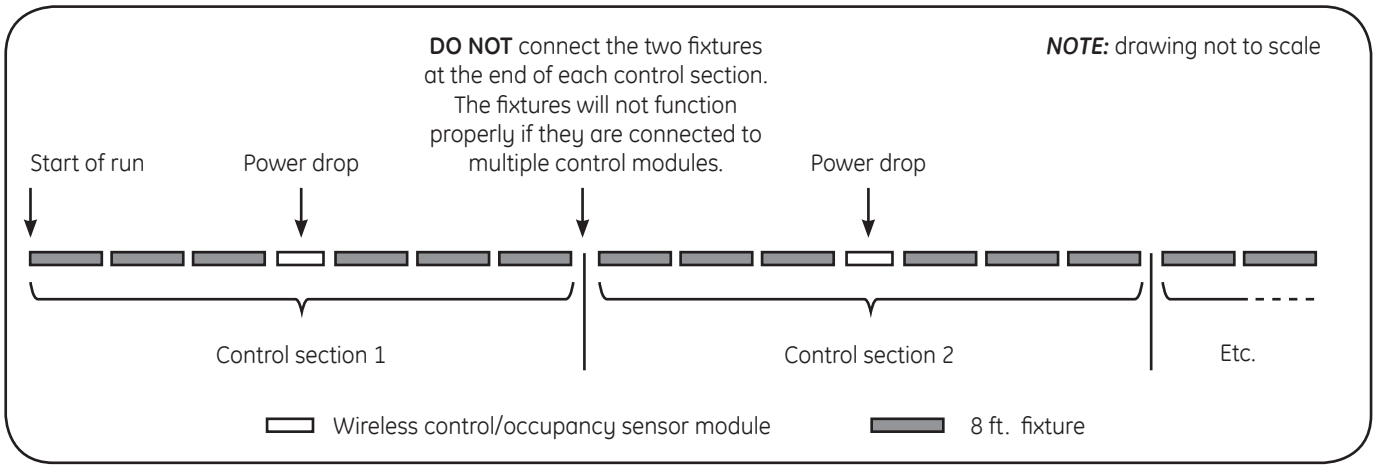
Wireless control /occupancy sensor module



The control module is attached the same as the continuous run fixtures.

Control Module Wiring Scheme

Each 14" wireless control / occupancy sensor module will power up to 48 ft. of fixtures (maximum 24 ft. per side). ***Note:*** The fixtures between control sections must not be connected to each other. Power drops must be connected to the control modules.


DO NOT connect the two fixtures at the end of each control section. The fixtures will not function properly if they are connected to multiple control modules.
NOTE: drawing not to scale
Start of run
Power drop
Power drop
Control section 1
Control section 2
Etc.
Wireless control/occupancy sensor module
8 ft. fixture

Troubleshooting

Symptom	Solution
Luminaire will not turn on.	• Check that the color of the supply side wires match the color of the wires they are connected to. • Check that all wire connectors are properly connected. • Verify that your input voltage is within specs. • If you are using any additional controls IE wireless controls // motion sensors, please also verify that those are working properly and that the unit is setup to interface with the controllers.
Mounting bracket slides from side to side.	• Check that the mounting bracket is properly tightened using the adjustment screws provided.

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